

Application No.: 10/655,915  
Response dated: July 28, 2008  
Reply to Office Action dated: May 19, 2008

Proposed claim  
Amendments

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
  - (a) determining the SorCS1 cDNA sequence of the subject;
  - (b) deducing the amino acid sequence encoded by the sequenced cDNA;
  - (c) comparing the deduced SorCS1 amino acid sequence with a reference sequence, SEQ ID NO:4; and
  - (d) screening for a difference in the deduced amino acid sequence relative to reference SEQ ID NO:4, the difference consisting of an amino acid ~~a~~ change from ~~a~~ threonine ~~to a isoleucine~~ at position 52 of the human SorCS1 amino acid sequence, and wherein the difference is indicative of ~~associated with~~ susceptibility to type 2 diabetes.
2. (Currently Amended) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
  - (a) determining the SorCS1 cDNA sequence of the subject;
  - (b) comparing the determined SorCS1 cDNA sequence with a reference sequence, SEQ ID NO:3; and
  - (c) screening for a difference at nucleotide position 163 in the determined sequence relative to reference SEQ ID NO:3, the difference consisting of a change from a cytosine ~~to a thymine~~ at nucleotide position 163, wherein the ~~nucleotide~~ difference ~~at position 163 of the human SorCS1 cDNA sequence~~ is indicative of ~~associated with~~ susceptibility to type 2 diabetes.
3. -12. (cancelled).

# Proposed claims

Application No.: 10/655,915

Response dated: July 28, 2008

Reply to Office Action dated: May 19, 2008

13. (New) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:

- (a) determining the SorCS1 cDNA sequence of the subject;
- (b) deducing the amino acid sequence encoded by the sequenced cDNA;
- (c) comparing the deduced SorCS1 amino acid sequence with a reference sequence, SEQ ID NO:4; and
- (d) screening for a difference in the deduced amino acid sequence relative to reference SEQ ID NO:4, the difference consisting of an amino acid change at position 52 of the human SorCS1 amino acid sequence, and wherein the difference is indicative of susceptibility to type 2 diabetes.

14. (New) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:

- (a) determining the SorCS1 cDNA sequence of the subject;
- (b) comparing the determined SorCS1 cDNA sequence with a reference sequence, SEQ ID NO:3; and
- (c) screening for a difference at nucleotide position 163 in the determined sequence relative to reference SEQ ID NO:3, the difference consisting of a change at nucleotide position 163, wherein the difference is indicative of susceptibility to type 2 diabetes.